Alston Mining Journal
Commencing 30th September 1816
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John Millican was the District Agent at Alston from 1816 to 1843

In the front of this book are two pieces of paper, undated:

1. An Extract from a very old book:

That part of Tynehead which belongs to Mr Gill is Freehold and he hath also the Royalties, the rest of Tynehead is held by Lease as aforesaid.

Lord Coke, in his Second Institute, page 578, reports a notable Case that happened in these mines of Alderneston, in the 18 Ed. 1. Henry de Whiteby and Joan his wife impleaded several of the miners for cutting down and carrying away their trees. The miners answer, that they farm the mine of the king, and plead that for working a vein of Silver (as now they do) the miners have a right to take any wood whatsoever that shall be near to and convenient for the said work, and that they have also a right at their will and pleasure to use and dispose of that wood for burning and smelting, and for paying the workmen their wages, and also to give what they think fit thereof to their poor workmen of the mine, and they state, that they have exercised their right for time immemorial. The said Henry and Joan acknowledge the miners' right to take the wood for burning and smelting for the use of the mine, but charge, that the miners had cut down, carried away, and sold large quantities of wood, from which the king received no kind of benefit, and which never came to the use of the mine at all. And upon this they pray to have judgment.—It doth not appear what was the event of the cause, nor is it now very material to inquire, for two reasons; first, for that by act of parliament no mine shall be deemed a royal mine, notwithstanding any gold or silver that may be found in it, only the king (if he pleases) may have the ore, paying for the same a stated price. Secondly, here is now, as may well be supposed, scarce a tree to be seen in the whole country.

2. Rampgill Vein

This Vein throws up the Sun or South Cheek about 3½ fathoms and her average bearing is __ 84° E. The Boundary of this Lease is from Nent River Eastward to the boundary ditch which separates Cumberland and Northumberland. Further Eastwards after crossing the bounder ditch the Vein becomes one of the Coalcleugh Veins, where she is called the White Wood Vein and where she has been worked for many years and produced a great deal of Ore, Westward from Nent she is called Peatstack Hill to the Briggleburn runner, and from thence westward till she joins the Browngill Veins, in all these places she has been productive in the Great Limestone and all the Sills above it wherever she has been tried.

1816

13th October. The last fortnight has been quite taken up in viewing the mines, letting the Quarterly Bargains and business connected therewith.

14th October. Mr Hornsby reports the Smallcleugh Flatts to continue about as they have been for some time.

15th October. James Lee &c., are quite beat out of their rise in the Longcleugh Vein by water, having we suppose got near the bottom of the firestone, they cannot work her further except the water partly drain off by standing a few days.

16th October. Hugh Readshaw &c., at Hangingshaw in rising have holed up into the old workings, which to us were quite unknown and unexpected, so that this trial appears to be done for the present.

17th October. Thomas Archer &c., have given up their Bargain at Tynebottom saying the place is very poor, so that the two men who were there before, have her again to themselves, we have now about 20 men out of employment.

18th October. We have agreed to let the partnership which was taken out of the Browngill Level, go along with a Woodman to repair the Longholehead & Browngill Whimsey Shafts, they being both in a very bad state, and extremely dangerous both on account of things falling into them and also like to run together, which would be very injurious to that part of the concern at a future time.
We have now employed a number of men in building a Dam, Cutting Water races, Cutting Wheel Cases, Levelling &c., and are going on with all the speed we can make with the Smallcleugh Crushing Mill.

21st October. The rise in the Longcleugh Mine still continues extremely wet, we have let them a Bargain to drive the Plate drift from the rise further North, at the bottom of the Firestone, which will both relieve them with air, and set them in above the water, and enable them to get up into the Firestone without much difficulty, we think there is little doubt of being a Mine that will work to advantage.

23rd October. The Black Ashgill Dialing has been made and the properest way for making the Trial to the Middle Vein appears to be to drive the Level forehead in a South West direction till it cuts the Vein, and then sink a sump into it, and see what appearance it makes, this method appears less expensive, as the Level will drive a great deal easier than the cross-cut could be cut in the Limestone and the air much better, and a readier way gate.
By taking the Level from the present sump head S. 30° W. 29 fathoms is expected to cut the Middle Vein if she keeps her point. The cross-cut would be to cut nearly W about 27 fathoms to cut the same, the Level will require about 90/- per fathom, the cross-cut would take 190/- per fathom being to cut in the Limestone and the air extremely bad, so that the difference in point of expense in favour of driving the Level appears considerable.

25th October. The Nenthead Mines are going on with little variation.

30th October. James Bell reports the Garrigill Mines to continue about as usual. Coopers Dykeheads Cross Vein drives fast but has a very bad appearance. Th. Cain &c., has risen into the workings above the Level in the Bentyfield Sun Vein, and from thence opened a shaft through from the surface, which will completely ventilate that Mine. J. Hall &c., has cut a Cross Vein which has about 2 feet throw, the fair running Vein improves in strength and has some Ore in it. The mines in the Garrigill district are in general very poor. We are now kept continually attending to the outside men, and has been so for the last two or three weeks, having about 40 men employed in work required about the Crushing Mills &c.

3rd November. Mr Hornsby reports the Smallcleugh & Middlecleugh workings to be going on about as usual.

4th November. The Rampgill & Scaleburn workings don't alter much. The Cross Vein Workings are raising Ore in considerable quantities, (viz.) J Blaylock & R. Irwine.

13th November. James Bell reports the Garrigill workings to be about as usual. The Nenthead Mines are about as they have been for some time

14th November. The outdoor work gets badly on this week being extremely stormy which has caused a number of men to be out of employment.

18th November. Smallcleugh & Middlecleugh Mines still keep raising Ore in considerable quantities, but upon the whole much less than we have expected.

22nd November. Thomas Romney &c., has a tolerable Mine in the Hazel below the Little Limestone in the North part of Middlecleugh Vein. The Smallcleugh Wheel Case has proved a very awkward place, the sides have fallen in very much and the Limestone has been a good deal of it to blast, so that the cost will be considerably more than was expected.

28th November. Isaac Hornsby reports the Rampgill & Smallcleugh Mines to continue as usual and James Bell gives the same report of the Garrigill Mines. The weather is much against the work going on out of the Mines, and causes every part of that kind of work to be done to a very great disadvantage.

6th December. We are now extremely busy reckoning with the men every day and preparing the pay bills, making out the Advance List &c., &c.

20th December. Can seldom space a day for viewing the Mines, however when any thing is expressly needful to be viewed it is not neglected.

23rd December. The Due papers are all now finished and Accounts preparing with all speed for the General Pays.

31st December & 1st January 1817. The Pays are making which is a busy time.

1817

8th January. This week has been spent making out Accounts &c., winding up the Pays which on Account of the tedious reckonings has been a toilsome task.

23rd January. The last fortnight has been spent in viewing the Mines in Weardale, Teesdale, & Alston Moor, and assisting in letting all the Bargains, which has been a very laborious time.

30th January. This week has been chiefly taken up in preparing Bargain Lists, Reports &c., for London.

6th February. We are now almost constantly employed in attending to the out door work about the Mills &c., which on account of the unsettled & stormy weather gets but slowly on & works to considerable disadvantage on account of snow &c.

7th February. This day the foundation is begun for the Rampgill Crushing Mill Wheel Case.

8th February. The Longcleugh Sump sunk by R. Dickinson &c., is holed through from the Middlecleugh High Level into the Smallcleugh Level, being a depth of about 17 fathoms, and has been sunk from the Plate bed under the Firestone to near the bottom of the Limestone Tumblers, and lays open in the Longcleugh Vein the Little Limestone, while Hazel, Coal Sills & Tumblers, and also the same strata in the Old Carrs Vein which is lying perhaps within 20 fathoms of the sump, a part of her is within two or three fathoms or less Westward from the sump.

10th February. The Deep Sump at Rampgill is holed through from the Top or Waygate Level about the Random of the Pattinson Sill into a Branch of the Rampgill Low Level in the Rampgill Sun Vein, under the Bottom of the Great Limestone, (a depth of almost 30 fathoms) this sump has been about a year and a quarter in sinking by Matt Thompson &c.
This sump completely ventilates this part of the Mine and lays open the Little Limestone, White Hazel, Coal Sills & Great Limestone in whole ground, from which we hope a good deal of Ore will be raised, there appears to be some Ore in the Tumblers that will work at a good price per Bing, and the Limestone below the Black Bed they have good Ore, the Little Limestone also is working to some advantage though only poor.

12th February. The Tynebottom Mine in Garrigill is improved a little and seemingly by we shall raise more Ore in Garrigill this year than we did last.
Mr Hornsby reports the Flatts & Middlecleugh workings to go on with little variation.

18th February. We have this day been viewing the Fletcherass Level on account of being opposed by the Craggreen Company as to going into their Level in order to work our part of the Garrigillburn Old Groves Mine. We have Levelled between the Craggreen Level Mouth and Fletcherass Level Mouth and find the latter to be about 10 ½ fathoms higher than the other, and are of

opinion that we can work the Mine at a less expense by going into the Fletcherass Level, than by taking the other materials &c., at the valuations offered us by them, and accordingly have ordered six men to begin opening out that Level.

20th February. Viewed the Longcleugh Mine. Measured off Dickinsons Sump &c. James Lee &c., are still rising in the Firestone in the Longcleugh Vein, and are about 14 fathoms into that sill. This Vein does not now look well at all and turns out far short of what we expected of her when she was cut in the Plate below.

24th February. James Bell reports that the Garrigill mines about the same as they have been for some time.

25th February. The Nenthead mines continue with little variation.

28th February. Have been this day in Garrigill. Tynebottom Mine is raising Ore pretty well. Crossgill Level still continues in the Clay & Tumblers. Whitesyke Level keeps going slowly on, Jos. Hall &c., in the Clay Level gets some Ore and are likely to get more we hope this Level will drive without being considered a dead weight as they are now getting Ore that will neatly pay for the driving, and upon the whole the Garrigill District wears more favourable aspects of late.

3rd March. This day we have been in Rampgill and have seen a very promising Mine in the Rise by Js. Wallace &c., in the New Vein Southward from Rampgill, they have risen 10 or 11 fathoms and appear to be about the bottom of the Limestone, and has Ore in some places, half a yard wide, but in taking the Limestone it appears to be considerably *straiter?* This Vein is entirely whole and the range of this rise lies exactly in the same situation in which the Smallcleugh Flatts are now driving Northward between the Old Carrs and the Great Cross Vein, having the Great Cross Vein perhaps about 80 fathoms to the East and the Hangingshaw Cross Vein about 50 fathoms on the West.

4th March. The Flatt forehead is now the best I have seen her, and the Middlecleugh workings continue about the same. Longcleugh Mine is now raising some Ore above the Level in the Tumblers. Thomas Cain &c., has cut the Sun String on the south of Middlecleugh 2nd Sun Vein below the White Hazel in the Plate, they have a promising looking Vein, and are going to rise up through the White Hazel and try it and the Little Limestone above, which we think a very likely place for raising some Ore. Old Carrs Cross String is poor. We have let Jona Vickers &c., a Bargain to sink 3 or 4 fathoms into the Limestone we think it a likely thing for carrying some Ore in the Great Limestone being a strong Vein and very quick. Geo Robinson &c., are continuing the Longcleugh Level to cut the remaining part of the Old Carrs Vein which may be perhaps 15 fathoms further West.
Matt Dickinson & partners are driving the Longcleugh High Level to cut the same Vein above, after cutting this Old Carrs Vein with these two Levels we shall have her in a good situation for trial, the West Cheek of her will we expect all be above the Level in the Great Limestone, so that we shall have the whole

of the Limestone between these two Levels, and have a fair opportunity of trying either Flatts or Vein.

5th March. We have this day removed the Desk, Books &c., from the Nenthead old office, to the new one prepared at the New House, and got a supply of Oat Meal into the other for the workmen at which they seem very glad.

6th March. This day has been spent entirely in filling up the Advance List.

7th March. A supply of Oat Meal has this day been delivered to the workmen, which is a most seasonable relief, and all that can be done; on account of the dearness of the times they are many of them almost in a state of starvation.

8th March. Assisting making the monthly advances at Alstone. After having much plague with the Craggreen Company we have got an agreement with them to go into their Level by paying them a price per shift for drawing &c., thinking it a readier way to work that Mine than by going in at Fletcherass Level. Our Rampgill Backsmiths are quite outdone, the men cannot be kept going with tools, many of the workings being extensively hard, consequently we have agreed to let Matt Robson go on a while till we see further.

10th March. We have run out the dialings upon the surface and set out the shaft to air the new Vein now rising by Wallace &c., from Hangingshaw Branch of the Rampgill Low Level, the shaft is a little to the south of the Mill chimneys, will be to sink perhaps 6 fathoms to the top of the Limestone, and after that the thickness of the Limestone say 10 fathoms. Which will lay that Vein open and put her in a perfect situation for working, the rise below is rise on about 10 fathoms and is extremely bad for air. This shaft will probably be to prepare for a climbing way and will be very convenient for that part of the Mine, this Vein seems to bear S about 83° E.
We have let Jon^{a} Vickers a Bargain in the Old Carrs String to sink into the Limestone 3 or 4 fathoms thinking it a good trial, being a strong and seemingly a bearing Vein.

11th March. We have this day let Bargains to 6 men to drive the Craggreen Level & 4 men to raise Ore in the North End of our Garrigillburn Old Groves Boundary up this Level. On account of snow our outside men are all idle which causes us a troublesome time, a part of them being extremely uneasy to have employment in the mines.

12th March. Viewed this day the Rampgill workings. The two Bargains in the Limestone are hard but as good Ore in them. The men complain they can make no wages, they have been much hindered on account of the inconvenient waygate. We have ordered this sump to be partitioned up the middle in order to have a climbing waygate up one side so that the men may get to and from work. One man was very nearly killed this week by sliding down the Rope which is the only way the last man has of getting out from the workings.
The two partnerships in the Tumblers appear to get Ore very well and are making wages. John Elliott &c., have cut the Vein underneath the Coal Hazle from the sump and are rising through the Coal Sill. We intend to let them

continue rising up through it into the Little Limestone now working by Hugh Spotswood in order to make a way for his work to go down into the Low Level, the Vein is about 3 fathoms from the side of the sump Jasper Hunter &c., and James Armstrong &c., are both in the Patterson Sill in the same Vein but are both very poor.
Emanuel Nattrass &c., are still opening the Waygate Level and are within about 20 or 30 fathoms of being up as far as necessary at present. The other Top Workings are going on about as usual, raising Ore, but not very fast.

13th March. This day we have viewed the Garrigill Mines, Tynebottom Mine continues to raise Ore pretty well. We have agreed with Thomas Archer &c., to sink a shaft into the Tynebottom Level Forehead, being very bad for air, and only a little way through we thought it absolutely necessary. John Vipond &c., has agreed to rise out of the Clay Level in the Cross Vein cut sometime since by Jos Hall &c., for 100/- & 38/- per Bing. The other Levels and workings continue to be prosecuted about as usual.

14th March. The Blackashgill & Capelcleugh Mines have been viewed. The Middle Vein is not cut, the men have driven as far as was expected to cut her, the Sills dip a little and there appears some symptoms of something being before them we have therefore determined to drive the level a little further before we sink into the Limestone. Thomas Midcalf &c., are still driving the South End which is extremely hard and has very little Ore, we suppose they are yet about 12 fathoms south of the Capelcleugh Vein.
This is almost the first day we have had this season that has been calm. The washers are become all at once exceeding clamerey to be set to work, and I have been making a general look through the washing places, which are all in the most ruinous & wretched condition imaginable, and I consider it the best way (after dressing up a few parcels that are in the way)) to prepare about 3 Buddles, at Rampgill and as many at Smallcleugh and Tubs and other conveniences connected therewith, and by making the Buddles of stone instead of wood, I flatter myself it may be done at trifling expense. We are much confined and Strait____ for room at both places, and it is impossible (almost) to get any more, yet I hope by contriving it to the best advantage we shall be able to make things tolerably convenient.

15th March. Spent at Alstone purchasing Oat Meal for the workmen &c.

17th March. We have this day been taking in the names of the washers and are almost teazed to pieces with applications, by both men and women of all descriptions, the state of the place is very distressing after all that can be done numbers declare they cannot subsist at all without employment in washing, and getting quit of the women seems at present impossible. We have come to a resolution not to alter the Smallcleugh washing place at present but let them go on a while with the washing there till we see further. Mr Hornsby has been examining and dialing the Middlecleugh Low Levels, and expects Matt Hall &c., will cut the 2nd Sun Vein in the course of two or three weeks, the workings there & Smallcleugh continue to be prosecuting about as usual.

18th March. Have been dialing the Smelt Mill Level to endeavour to get the shaft holed through into here for the tail race and now having a number of hands on at Water Races, Wheel Cases, and Quarries &c., we are kept continually upon duty among them, and it is no easy matter to keep them properly employed.

20th March. Have been viewing Tynebottom Mine and dialing the workings the men having some dispute about the boundaries, this Mine continues to raise Ore tolerably well.

21st March. This has been a very busy day delivering Oat Meal to the workmen, at the conclusion of this days delivery (this being the last of the present month) it appears the consumption is about 72 Alstone Bushels or 108 Bolls.

24th March. The whole of this day has been spent among the out door men, at the Water Races &c., being good weather we have a number of that kind to attend to. I find this day that we have about 30 men out of employment, which together with a number of Washing Boys makes the teasing almost intolerable.

25th March. James Bell reports the Garrigill Mines to be going on without any material alteration.

26th March. The Smallcleugh, Middlecleugh, and a part of the Rampgill washers are now begun and going rapidly on when the weather will admit it, so that in a little time we shall be able to supply the Smelt Mill.

27th March. We are and has been for some time arranging a new the Rampgill Washing place which has been in an exceedingly bad situation and extremely inconvenient and on account of little room to be had I find it extremely difficult to make it as I could wish it, I have surveyed it and resurveyed it over and over and am in hope we shall be able to make some considerable improvement in it.

28th March. The Rampgill Mines and Smallcleugh are going on about as usual. We have got the machine placed and are putting up the Cast Metal air Pipes in the Capelcleugh Cross Vein Level, which will we expect supply these workmen with good air for a long time.

29th March. The Middlecleugh Cross Vein Workings continue extremely poor, it seems we shall raise only a small quantity of Ore at that Mine this year.

31st March. This has been a teasing day among the men several being out of employ, and a number of out door men and keeps us continually looking after them.

1st April. The Rampgill Mill Wheel Case is now up and ready for the framing coming on, so that the Millwright are not kept back and I suppose they are nearly ready for placing the framing &c.
We have a busy day in Garrigill setting out the Water Race from Crossgill to Tynebottom Mine this Water Race is absolutely necessary as without it it is

impossible to wash at all for a great part of the year. The Garrigill Mines does not alter much.

2nd April. Filling up the advance List, which on account of the Meal, Rye, &c., is an extremely busy job and one of the most unpleasant I ever engaged with.

3rd April. Delivering Oat Meal and almost smothered with the crowd, at the ends of each month a considerable part of the population are almost on the brink of starvation.

4th April. The Smallcleugh and Middlecleugh Mines continue about as usual, we expect to cut the Middlecleugh Sun Vein very soon.

5th April. At Alstone assisting making the monthly advances &c.

7th April. We are now extremely busy with the Rampgill Washing place &c., and expect to have the whole of the washers on in a little time, and are getting rapidly on with the other Mill convenience &c., but such a multitude of new arrangements take very much performing and cannot be done without taking up considerable time.

8th April. The Millwrights are now getting on the framing &c., at the Rampgill Mill.

9th April. The 2nd Rise into the Middlecleugh Vein is now got through and has been an extremely slow vexatious job, being in a twitch and extremely bad for air and has taken the workmen the whole of the last quarter, of course they have earned extremely little.

10th April. The Blackashgill men have cut as far as we think there can be any probability of cutting the Middle Vein they have cut two or three small strings but so weak in appearance that we think she is broke I of course has little opinion of that trial.
The Longcleugh men have risen a good way up into the Firestone, the, the Vein looks not well, they have driven about 4 fathoms in the Vein Eastward, but she does not appear to alter at all for the better, consequently we have determined to discontinue this trial thinking we have done as much there is can be done with any propriety.

11th April. Matt Hall &c., have this day cut the Middlecleugh 2nd Sun Vein, and we expect to have the rise up to the Bottom of the Limestone in a little time, and then we hope to lose the water out of the Soles, and get ore very fast.

12th April. James Bell reports the Garrigill mines to continue about as usual, Craggreen improves a little.

14th April. Thomas Havelock has this day begun to carry Ore to the Mill, so the smelting will again get forward.

15th April. This day we have been viewing the Blackashgill Mine, the Level is now driven as there is no probability of any more Vein being cut in that direction, we have therefore determined to sink a sump and prove the two small Veins already cut, after which if these prove unsuccessful we shall have a very bad opinion of this Mine. We have also seen out the Old Vein upon the surface, and the Longcleugh Vein, alias, Wellhope Knot Vein, in order to see whether the Blackashgill Old Vein has been driven, to where the point of intersection ought to have been with the Wellhope Knot Vein, and it appears that the Blackashgill Vein is driven further south than where the other should have crossed her, (about 30 or 40 fathoms) so that there is nothing to be expected from that intersection, it having never made any appearance.

16th April. We have this day been viewing the Rampgill Mines. The new Vein working by Jos Wallace &c., looks very well in the situation they are in, being only about 5 feet into the Limestone in the lower cheek, and has Ore in places half a yard wide, we make little doubt but that further up in the Limestone she will prove an excellent Mine. The Cross Vein workings by Blaylock &c., still continue to raise Ore middling well and the Sun Vein Tumbler Workings look well, but the Limestone is hard and the men have not done much this quarter. This day the Rampgill Axletree is laid on, and the machinery is getting forward as fast as possible.

17th April. This day we have been viewing the Garrigill Mines, John Vipond &c., have risen out of the Level driving by Jos Hall &c., about 7 fathoms and holed into the old workings above 1 fathom above the bottom of the Limestone, the old drift is open about 25 or 30 fathoms eastward mainly up to the Cross Vein expected to be cut in the Level, now on about 3 or 4 fathoms diving. The old workings appear to have been extremely poor scarce a particle of Ore being to be seen in what is left and being wrought so poor by the former workmen within a little of the Bottom of the Great Limestone it appears useless to make any further attempt to get Ore there consequently we have discontinued it.

The Level forehead is poor the men suppose they have got 30 or 40 Bings of Ore in driving about 15 fathoms.
The Whitesyke Level men seem to get very well on, some parts of the Level is very good and little repair.
James Bell reports the three Garrigill Mines to be about as usual. This morning Matt Hall &c., reports to us that they have losed the water out of the Middlecleugh 2nd Sun Vein Soles, which is news we are very glad to hear & hope that we shall be able to raise a good deal of Ore at this Mine.

18th April. At Mr Dickinsons request, I made out the following estimate of Ore expected to be raised at the Gov. & Co.'s Alston Moor Mines, from 30th Sept 1816 to 30th Sept 1817.

Rampgill	2800
Middlecleugh Cross Vein	100
Middlecleugh	1800
Smallcleugh	1550

Caplecleugh	30
Hangingshaw Cross Vein	40
Scaleburn	50
Broomsbury	30
Browngill	80
Tynebottom	750
Bentyfield	180
Craggreen	90
Total Bings	7500

21st April. The Smallcleugh and Middlecleugh workings continue about as usual, Longcleugh Level Forehead is extremely hard and bad to drive.

22nd April. We have this day been viewing the Veins cut in the Nentforce Boat Level accompanied by Mr Dickinson Jn. The Vein we are driving to cut from the Loveladyshield shaft appears to be a very promising looking Vein being of considerable strength & about 4½ feet width in Vein room. We suppose we are yet upwards of 30 fathoms north of her. In the NS Level, they have cut another Vein still further south, near their present forehead, but seems much weaker than the other.

23rd April. The Smallcleugh Mine continues about as usual.

24th April. The water is settling slowly from the Middlecleugh Soles we expected it would have been all gone before now.

25th April. The Guddamgill men we suppose has raised about 30 Bings of Ore, and have now holed into an old sump about 14 fathoms further East than the Level forehead in the Coal Sills and how far it has been sunk we know not, we have considered it the best way to put forward the Level forehead to it and then see how far it goes down and perhaps it may then be thought proper to make an attempt to get down into the Great Limestone.

26th April. We have this day got the water through the new Race from the Stamp Mill to the Rampgill Crushing Mill. It appears to answer very well and holds the water much better than I expected, having had a great deal of bad uneven ground to go through.
James Bell reports the Garrigill Mines about as usual.

28th April. This morning the water is quite settled out of the Middlecleugh 2nd Sun Vein, and accordingly to promise we have permitted Matt Hall &c., to prepare for raising Ore (in the length they chose) as far as they please.

29th April. Jacob Blaylock &c., have some very good Ore in the shaft sinking by them into Wallaces Rise in the New Vein at Rampgill, we have here a good prospect both at the Bottom and Top of the Great Limestone, so that this is almost certain to be a profitable Mine.

1st, 2nd, & 3rd May. Filling up Advance List assisting making Advances &c.

5th May. Attending to the out door arrangements and viewing the Smallcleugh Flatts & Middlecleugh in company with Mr Tinfeldt &c. The Middlecleugh 2nd Sun Vein appears well in the Soles.

6th & 7th May. Viewing Middlehope and Stanhopeburn Mines.

8th May. Settling the Duty Ore Accounts with Hospital Agents.

9th May. Setting out Water Races, Levelling &c., &c.

16th May. In Teesdale this week viewing the Mines, assisting at letting the Bargains &c., &c.

23rd May. The whole of the week was taken up in viewing the Alston Moor Mines.

26th May. This and the following day was taken up in letting the Alston Moor Bargains and the remainder of the week wholly taken up in making out the Bargains List, Advance List, delivering Oatmeal to the workmen and assisting in making the advances.

2nd and 3rd June. At Middlehope with the Bargains List and the remaining part of the week attending to out door arrangements.

6th June. In the Smallcleugh Flatts and Middlecleugh along with the Greenwich Hospital Agents & two South Country gentlemen who all seemed much pleased with their subterranean survey. The Smallcleugh Flatts are poorish. The Middlecleugh Soles offer to do very well.

10th June. The Garrigill Mines continue about as usual.

11th June. Middlecleugh 2nd Sun Vein in the foremost sump but one westward is not cut, we thought it right to let 4 men a Bargain to cut her, supposing it might perhaps not be more than two fathoms.

12th June. The Level Forehead in the Rampgill Sun Vein driving by Matt Thompson &c., has cut the Wood House Cross Vein, this Vein runs in a swinging direction from the North West to South East and entirely whole for a great way. We have ordered the men after cutting through her to rise into the Great Limestone, and we consider it an excellent chance for opening out some more mines.

16th June. The Rampgill workings continue about the same as at the Bargains, the New Sun Vein working by Wallace &c., is very promising, and will we hope raise a good deal of Ore, the workmen have holed through between the shafts sinking by Jacob Blaylock &c., and the rise risen by Js Wallace &c., and have had excellent Ore the whole thickness of the Limestone.

19th June. We have this day viewed the Veins on the West of Tyne, which were spoke of last year by Jos Ritson, several trials might be made there, and some

Veins seem worth expending a little money upon if the mining business was in a better way, but I think money might be spent to a better purpose nearer home.

20th June. The Garrigill mines are just about as usual.

23rd June. This day we have the Rampgill Crushing Mill to work, and now thinks her a piece of excellent machinery of the kind and extremely well situated having Water Races &c., all prepared in the most convenient way. And we make no doubt but she will answer a very good purpose.

25th June. The workmen have this day cut into the old workings in the Rampgill Old Vein. She is quite full of deads, however we expect she will get on and raise Ore that may perhaps pay for the driving in the meantime, and in a little time there seems to be no doubt but she will work to considerable advantage.

26th June. Making out the Advance List.

27th June. Costing up and balancing.

28th At Alstone assisting at making the advances, paying for & purchasing Oat Meal &c., &c., &c.

1st July. The Middlecleugh & Smallcleugh workings continue about as usual (the Flatts are rather poor).

2nd July. The Rampgill workings don't vary much, the Sun Vein is better & produces more Ore, than she has done before since the Bargains.

3rd July. The Garrigill Mines continue to be prosecuted with little variation.

4th July. I have this day been at Middleton with the Cash Book, Store accounts, Oat Meal Receipts &c., for Mr Staggs inspection.

7th July. The Middlecleugh workings continue to be prosecuted about as usual producing considerable quantities of Ore.

8th July. We have this day viewed the Rampgill Mines. The Sun Vein workings are raising Ore very well and we have a let Bargains to 8 men to cut to the Vein 40 fathoms westward from Matt Thompsons sump, and to 4 men to put of the forehead in the Coal Sill Westward from the said sump, expecting that in about 5 fathoms driving some strings come into her that will be the means of raising improving this Vein in that part, so as to cause her to raise Ore to advantage, we have also let, the Rampgill Old Vein Level men a Bargain to drive the forehead and expect that place will now go on to advantage.
And we have also let 4 men a Bargain to cut cross westward from the Rampgill Cross Vein near the forehead to prove whether any part of that Vein is gone off westward.

10th and 11th July. At Brockergill and running out Veins.

14th July. In Rampgill giving the men driving the Sun Vein Level Crosscut a point to drive by and making some other surveys.

15th July. The Garrigill Mines continue with very little variation. We hope that Tynebottom Mine will raise near 1000 Bings of Ore.

16th July. Rampgill Sun Vein working from Matt Thompsons Sump is doing well and raising a considerable quantity of most excellent Ore.

18th July. The Crosscut in Smallcleugh Flatts cutting Eastward is rather flattering at present, having come at some Ore and we have some hopes that another range of Flatts may be nearer the Great Cross Vein, the present Flatt foreheads are now working considerably further westward from the Great Vein than the workings were when further south, so that there is a probability of the better part being yet whole nearer to the Great Cross Vein.

19th July. At Alstone purchasing Oat Meal for the workmen and a variety of other business.

21st July. We have this day let another Bargain at Tynebottom to a partnership to raise Ore in a length further Eastward than we have wrought any before, and also agreed to let two men take forward the stoup so as to make a waggon way straight southward so as to get through the South Lead or part of the Vein.
Robert Pearson &c., at Guddamgill have opened out the old sump down to the water, the Vein in the Great Limestone has a very bad appearance in that situation so that we have declined doing anything more in that part for the present. We have agreed with the men to open out a drift in the Little Limestone, eastward to an old Whimsey, to see if there is any whole ground in that part, and partly in search of any old Crosscut which was said to be cut to a string southward which had good Ore in it, and left on account of bad air bad waygates &c., &c.

22nd July. The Middlecleugh and Longcleugh workings are going on about as usual. The Middlecleugh 2nd Sun Vein Soles are poorer the Eastward Workings some of them being nearly picked out to the Bottom of the Limestone.

24th July. At Middleton reporting to Mr Stagg the situation of the various mines &c., &c.

25th July. Making out the Advance List &c., &c.

26th July. Assisting making the Advances &c., at Alstone.

28th July. The prospects for the Blackashgill Mine is at present by no means flattering, we have opened out the Level to the Forehead, and also the Limestone drift below it.
The Level is driven a few fathoms further than the drift in the Limestone. We have considered it the best plan of working to drive the Limestone drift in the Vein as far as the Level forehead, and sink a sump to properly ventilate the mine, after this if it be thought proper we can cut cross both east and west so

as to prove whether or not the Vein is broke off to either side, where she now stands in the Limestone forehead she has a very weak bad appearance.
The Rampgill workings continue about as usual Matt Thompson &c., are rising into the Great Limestone in the Cross Vein (cut by them in the Level) at the intersection between this Cross Vein and the Sun Vein.

29th July. The Guddamgill workmen have come at the Little Limestone forehead, which has a very bad appearance. We have now agreed with them to open out the Level above the Little Limestone so as to find (if we can) the East end of the old working30th July. The Thortergill Level men are quite at a stand with their Level for want of air. They have driven a few fathoms through the Thortergill Cross Vein, there is a shaft sunk about 10 fathoms (near this vein) and walled from top to bottom we expect the Level is about 6 fathoms below the bottom of the Limestone, and from the bottom of the shaft to the bottom of the Limestone we suppose may be 6 fathoms, so that from the shaft bottom to the Level will we expect be about 12 fathoms. After this shaft is holed through it will completely lay open the Cross Vein and also the East and West Vein in the Great Limestone, and there is little doubt but this Mine will be wrought to advantage.

31st July. The Smallcleugh and Middlecleugh Mines don't vary much, we have still some expectation of the East side of Smallcleugh Flatts working again improving, the Crosscut is still going forward and the place appears very hopeful like though the Flatt does not yet produce any considerable quantity of Ore.. The Middlecleugh 2nd Sun Vein workings continue to produce a good deal of Ore tho upon the whole they seem rather poorer Longcleugh about as usual.

4th August. The Rampgill workings in the Sun Vein continues to produce Ore very well, we have had a considerable debate there between two partnerships, the lower partnership in the West End of the Great Limestone having let down a large piece of rider & Ore, which they say they could not avoid, this piece was about 14 feet in length and the height went upwards about 6 feet into the ground belonging the upper partnership, we could find no way how to reconcile this difference but by computing the quantity of Ore supposed to be contained in the piece and let the upper partnership pay the lower one for getting it out &c. Accordingly we calculated the Ore at 30 Bings, and the men to have 5/- per Bing allowed for getting it away &c.

5th August. The Garrigill Old Groves men have got the Fletcherass Level opened out to the place where the Cross Vein ought to be but she is not perceivable on account of the confusion of the place caused by the Fletcherass Vein being in the Level, we have appointed them to begin a few fathoms down the Level and drive in a swinning *(swinging?)* or nor-east direction till they cut the Vein, it is reported that there is another Cross Vein to the west of the Vein which we are seeking. We expect that we have the Level where we shall cut this Vein also.
The other Garrigill Mines are going on with little variation.

6th August. In the Broomsberry Level the men have losed so much water that except it partly drain off they will not be able to work her.

8th August. Matt Thompson &c., are rising in the Rampgill Woodhouse Cross Vein which they cut in driving the Level in the Sun Vein. The Vein is at present very dead and does not look promising, the West End of the Sun Vein appears like pasting *(parting?)*, it appears that some small strings have come to her (which has caused the Ore) and are now again leaving her, which we fear may weaken her again.

9th August. The Smallcleugh Flatts don't vary much, we still have hopes that the Crosscut to the Eastward will make some discovery. They have a Flatt and some Ore in it.

11th August. This day we have had two of the Thortergill Cross Veins run out southward, it appears that there will be a junction between them about 200 fathoms south from the Browngill Sun Vein and may be thought worth proving at some future time.

12th August. The Crossgill Level is going on about as usual, Tynebottom Level still continues very difficult to go on with being still in the gravelly sand bed. The Ore workings are about as usual, and the other Garrigill Mines don't vary much.

13th August. Middlecleugh 2nd Sun Vein workings are poorer some of them being nearly slit out to the bottom of the sill, John Armstrong &c., in the Middlecleugh Vein have some good Ore in the Soles of the North part of the Vein, and cannot get it for water, this ground might be drained by driving the East Level in a swinning direction about 14 or 15 fathoms, and might probably open out some workings in these Veins further west that might work to some profit.

14th August. The Scaleburn Level is now driving in the Vein and is extremely hard and bad to move, she has some Ore in her, perhaps near a Bing in One fathom driving. The Rampgill Low Level in the Old Vein is also extremely hard and has very little Ore in it, I suppose it will be some time before we need expect much Ore there she having been poorish in this West end when first driven through. The Rampgill Sun Vein workings are doing well.

15th August. The Longcleugh Level continues hard and has not yet cut the Old Carrs Vein, Smallcleugh Flatts are poorish, the East side Crosscut is discontinued and the men are now working for Ore in the Flatt opened by the Crosscut.

19th August. We have this day been running out the Patterdale Vein southward it appears to be about 100 fathoms to drive south before this Vein will intersect with any fair running vein.

20th August. The Patterdale Vein Northwards comes near the Broomsbury Cross Vein, from a certain angle about 200 fathoms north from the present

Level forehead, (the Broomsberry Level forehead now driving southward) the distance to this Patterdale Vein will be about 40 fathoms, and about 90 fathoms further would reach the Carrs Cross Vein so that it appears that a crosscut South West from this part of Broomsbury Level, would cut all the Veins between the Scaleburn Cross Vein and the Carrs Vein in about 130 fathoms driving. At the Broomsberry Level forehead the Patterdale Vein is about 100 fathoms west from the Scaleburn Cross Vein.. This ground North of Gillgill for a great way is quite unexplored and it is well known that several Cross Veins must run through it, probably too many being some of them very strong Veins, but they may perhaps at some time be thought worth notice, and it is very possible that they may be found some of them to be very valuable.

21st, 22nd, & 23rd August. Making up the Advance Lists, assisting at making the Advances &c., &c., &c.

25th, 26th & 27th August. The gentlemen of the Deputation here from London.

28th August. The Broomsberry Level cannot be driven for water having an extremely large quantity coming down into the Level forehead, there appears to be a remedy but coming northward a little and to turn the Level out of the Vein, this Level is now run close and also the Guddamgill Level, we are under the necessity of employing another woodman a while.. The Mines are very bad to keep up, has employed John Dryden till the Bargains.

29th August. The Garrigill Mines continue about as usual.

3rd September. Rampgill Sun Vein continues to raise Ore very well.

4th September. Scaleburn Level is very hard but has rather more Ore.

5th September. Middlecleugh 2nd Sun Vein is much poorer the best workings being almost all picked to the bottom of the Limestone, the 1st Sun Vein and the Middlecleugh raise no Ore worth mentioning.

6th September. Smallcleugh Flatts are not rich tho they still continue to raise small quantities of Ore.

9th September. The Middlecleugh 2nd Sun Vein workings are much wrought to the bottom of the Limestone, and the Longcleugh Vein continues to raise very little Ore.

10th September. The Tynebottom workings are poorer, we expect we have met with Garrigill Burn Old Groves Vein in the Fletcherass Level.

15th September. This week nearly the whole of it has been spent in viewing the Weardale Mines and letting Bargains &c.

22nd September. Teesdale Bargains &c., has taken up nearly the whole of the week.

1st May 1818. An estimate of Ore expected to be raised at the Governor & Companys Alston Moor Mines from 30th September 1817 to 30th September 1818.

Rampgill	5300	Scaleburn	80	5380
Smallcleugh	1450	Middlecleugh	750	2200
Longcleugh	300	Old Carrs	20	320
Cowslitts	30	Broomsbury	10	40
Guddamgill	90	Tynebottom	900	990
Bentyfield	40	Thortergill	80	120
Browngill	60	Garrigill b	20	80
Crossgill	20	Hangingshaw	50	70
			Total Bings	9200

Leases Renewed	**commencement**	
Longholehead	20th Jan 1821	Long h. Whimsey to Capelcleugh W Boundary
Browngill	22nd Mar 1821	Thortergill X vein & L. Hole hd Whimsey
Browngill Sun Vein	22nd Mar 1821	Thortergill X vein & L. Hole hd Whimsey
Middlecleugh	22nd Mar 1821	to 1000 yds W from Normans shaft to the long ditch
Middlecleugh 1st S Vein	22nd Mar 1821	to 950 yds W from Engine shaft to the long ditch
Middlecleugh 2nd S Vein	22nd Mar 1821	1000 yds W from Atkinsons Shaft to the long ditch
Hangingshaws	17th May 1821	West side boundary of Carrs W of Nent to the W side Boundary of the late Jno Hutchinsons allotment

Estimate of Ore expected to be raised at the Governor & Company's Alston Moor Mines, from 30th Sept 1818 to 30th Sept 1819.

Rampgill	5000
Scaleburn	70
Smallcleugh	700
Middlecleugh	350
Longcleugh	300
Carrs South End	40
Guddamgill	90
Tynebottom	400
Bentyfield	40
Thortergill	40
Browngill	60
Garrigillburn	10
Total Bings	7100

Estimate of Ore expected to be raised at the Governor & Company's Alston Moor Mines, from 30th Sept 1819 to 30th Sept 1820.

Rampgill	3800
Scaleburn	500

Smallcleugh	400
Middlecleugh	700
Longcleugh	200
Carrs South End	250
Gudhamgill	150
Tynebottom	270
Bentyfield	40
Thortergill	40
Browngill	40
Garrigillburn	10
Total Bings	6500

14th June 1819.
Viewed a few of the Rampgill & Scaleburn workings.
Rampgill *E* Level is now driving a few fathoms *E* of John Bell s rise. The Level roof is a little below the bottom of the Limestone on the *N* of the Vein. Bells rise is risen about 3 fathom & they suppose they are about the bottom of the Sun Cheek of the Limestone. The Vein & Black lead together seems to have upwards of 3 fathom: through here very little Ore in the rise at present. Robert Hetheringtons or the other Level driving in the Vein is near the bottom of the Limestone the _____ appears about 2 feet above the Level Sole on the Sun side of the Vein, the Limestone on the *N* side of the Vein will probably be 2 fathom deeper than Level Sole. They are 58 fathom driven from Bells Sump and Bells Sump is said to be some way between 7 & 11 fathoms *E* of Dixons Sump.
The Crosscut in Scaleburn for the Plate on the N of the Level does not cut anything worthy of much notice, tho they appear (the leads) lively & promising we consider it right to cut a little way further north as they seem yet short of the leads now working to advantage by Jn. Ellis &Pts, further Eastward.
Thomas Robinson says he worked in Scaleburn Upper Sills many years ago & he believes the Slatesills & Firestone are all nearly whole & some lengths nearly whole in Pattinson also.

28th July 1820.
Viewed the rise by Wm. Slack &Pts near Thomas Indians Sump in the Middlecleugh 2nd Sun Vein *E*. End they have risen 5½ fathoms from the Level roof and are about 3 feet into the *S* Cheek of the Little Limestone, the Vein here hades much and has about 14 feet throw (Sun Cheek up) has some ore but will not work at Bing price.

Boundaries

Meddleclough Sun Vein — Atkinsons Shaft is about 44 fathoms W. of Cans Vein

Meddleclough 1800 — The Engine Shaft is about 48 fa W of Cans Vein — Coulsons Level is driven to the Sun Vein, and from thence on this Vein Eastward to the Engine Shaft, by the Hospitals plan

Meddleb Normans Shaft this is the 1st Shaft sunk into Meddleclough Level

Longholehead — The Boundershaft upon the Hospitals plan is about 3/4 yards W of Longholehead Whimsey

Shotergillsyke NB. The Collards Level is the Shotergill top Level driven from Spanegill Beam to Brungill, and up the Brungill to a great Way Eastward

Capleclough — The Engine Shaft is a little on the E side of the E Whimsey

Capleclough Sun Vein — The Bounder Shaft sunk upon the Vein is the West Whimsey

Throws of the Veins in the Companys Alston Moor District				
Cross Veins at Rampgill	W. S. up		E. S. up	
	Fa	Fe	Fa	Fe
Carrs Vein and Hangingshaw Vein are nearly together where crossing Rampgill Low Level, it seems they together throw down the East Cheek say	8			
Low Fairhill Vein			1	4
High Fairhill Vein	3	3		
Great Cross Vein (west part)	4	3		
Great Cross Vein (east part)			12	3
Patterdale Vein	6	3		
Gillgill (little)				
Rampgill Cross Vein				4
Woodhouse Cross Vein		2		

Throws of the Veins in the Companys Alston Moor District				
Cross Veins at Middlecleugh	W. S. up		E. S. up	
	Fa	Fe	Fa	Fe
Great Cross Vein	14			
Smallcleugh Vein			8	
Carrs Vein	14			
Cowhill Cross Vein when she crosses Middlecleugh 2nd Sun Vein about 140 fathoms West of Old Carrs			1	2
Cowslitts Cross Vein				4

Throws of the Veins in the Companys Alston Moor District				
	N. S. up		S. S. up	
	Fa	Fe	Fa	Fe
Rampgill			2	2
Rampgill Sun Vein				3½
Rampgill 2nd Sun Vein. very little say		1½		
Scaleburn			1	3
Longcleugh				3
Middlecleugh 2nd Sun Vein, on the E side of the Great X Vein			1	5
Between Smallcleugh Vein & Carrs Vein the *N* Cheek is up				
On the W of Carrs Vein throw about			2	2
Middlecleugh 1st Sun Vein		1½		
in the *W* of Carrs Vein, appears much stronger and probably has a greater throw				
Middlecleugh, or the Vein Thos. Bowman &Pts. worked in the Little Limestone, 1819				3½
Middlecleugh *N* Vein on the *W* of Carrs Vein				4

Survey of Damages by the Company's Mines in Garrigill

20th April 1820

I have this day in company with Mr Dickinson, Mr Bainbridge & Mr Hornsby viewed the several Damages occasioned by the Company's Mines & stated them as below, viz.

For Crossgill Mine to Pay William Slack 20/- a year from the commencement of the Level (in 1817) and to repair the Water Race & the Wall near the Level Mouth and lead the sods from the Water Races into the holes above the Level Mouth occasioned by the level.

Tynebottom Mine to Pay George Swindle the sum of for £10
the land covered by three or four shafts heaps in the north
W field and also for the cutting heaps in the Syke, the whole
supposed to amount to about ¼ of an acre.

Also for the yearly agreement for the same up till Mayday 1820 £1
as formerly has been paid.

And for the Damage done to the Low field by destroying the
grass &c., in the latter end of 1819 when the Engine was put £2
in the Pail Race cut through a part of it &c.

And for the shaft &c., there to be considered off

Browngill Mine to Pay Peter Maughan 10/- a year from when his allotment was enclosed.

And the Water Races to be measured and Pay exactly to the value of the land.

Thomas Todd to have 40/- as usual for the Tynebottom Level Heaps &c. for the year.

Transcribed by David McAnelly
November 2017

An Account shewing the Commencement of the Leases within the Manor of Alston Moor granted to the Governor & Company for Smelting down Lead &
NB The Boundary of each Vein contains Forty yards on each side thereof.

Names of Lead Mines	Commencement of 21 Years	Throws S. dext.	Extent of Boundaries
Rampgile	Jany 27. 1817	up 11	From the Long ditch to Nentrivver
Sun Vein	Jany 23 1804	up 3	From the Long ditch to Nentrivver
2 Sun Vein	Mar 12 1805	very little	From the Long ditch to Nentrivver
Cross Vein	May 30 1811	E Ch up 4	From the South side Boundary of Scalebuenmoss to the long ditch
Scalebuen	Sep 6 1806	S Ch up 9	From the Bounder ditch 1200 Yards Westward
Moss	Jany 27 1817	Removed	From the long ditch to Nent River
Cross Vein	May 17th 1805	E Ch up 11	From the Boundary of Scalebuenmoss Vein to the Boundary of Guddamgile Moss Vein
Guddamgilemoss	May 1 1815		From the long ditch to Nentrivver
Middleclough	May 30 1811	S Ch up 3	From Normans Cross 700 Yards Eastward & 1100 Yards Westward
Cross Vein	Feby 20 1813		From the Boundry of Ashgile Liberty 1110 Yards Northward
1 Sun Vein	March 22 1800	Removed	From the Engine Shaft 250 Yards Eastward & 950 Yards Westward
East end	March 22 1800	Removed	From the bounder ditch to the East end Boundry of Mid. Vein
1 Sun Vein E. end	July 14 1798	N Ch up 18	From the long ditch to the East end Boundry of Middleclough 1 Sun Vein
2 Sun Vein	March 22 1800	S Ch up 12	From Atkinsons Shaft 200 Yards Eastward & 1000 Yards Westward
2 Sun Vein East end	Jany 27 1817	S Ch up 11	From the long ditch to the East end boundary of Middleclough 2 Sun Vein
Longclough	July 14th 1798	S Ch up 37	From the long ditch 1200 Yards Westward (Removed to Limestone)
West end	Nov 24th 1804		From the West end Boundry of Longclough Vein to Ashgile Liberty
Carrs South end	July 14th 1798	Removed	From the South boundary of Carrs West of Nent to the boundary of Ashgile Liberty
Smallclough Cross Vein	June 25th 1806		From the boundary of Stanhope to a line drawn from the foot of Smallclough syke to Kelhope Cross
Flatt	May 30th 1811		From the long ditch to the South side boundry of Shaw pot Sun Vein
Copleclough	Feby 28 1807		From the Engine Shaft 260 Yards Eastward & 950 Yds Westward
Sun Vein	Jany 2 1817	Removed	From the Bounder shaft sunk upon the Vein 1200 Yds Westward
North Vein	July 29 1815		From Middleclough runner 1200 Yards Westward
Cross Vein	Feby 28th 1807	Removed	From a line drawn Due West from Copleclough Sun Vein bounder Shaft 700 Yards Northwards

An Account shewing the commencement of the Leases of the Manor of Alston Moor granted to the Governor & Comp.ª

N.B. The Boundary of each Vein contains

and Extent of the boundaries of several Lead Mines within for Smelting down Lead &c

Forty Yards on each side thereof

Names of Lead Mines	Commencement of 21 Years		Extent of Boundaries
Cowshitts	Feby 28th 1807		From Brentlaven 1200 yards Westward
Cross Vein	Feb 28th 1807		From Caple Clough Burn 300 yds Southward & 900 Yards Northward
Cowhill	Feby 28th 1807		From the West side Boundary of Cans Vein 1200 yards Westward
Hanging shaws	May 17th 1800	Renewed	From the Bounder of Caplecleugh Cross Vein to the Bounder of Cans Vein
East end	Feby 25th 1817	Proposed to renew	From the long ditch to Nent River
Cross Vein	Jany 27th 1817		From Gillgillsyke to a line extended from the Foot of Smalecleughsyke to Kelhope Cross
Cans E. of Nent	Dec 15th 1800		From Nent River to Rampgill Burn
Garrigill Mines			
Longholehead	May 30th 1811	Renewed	From the Bousfield Shaft at Longholehead to the Mears boundary of Scaleburn 920 yards Eastward
Scowgill	Mar 22d 1860	5 chuck up of Rens	From the Bousfield Shaft at Longholehead to the East side of Thorlargile Cross Vein
Sun Vein	March 22d 1800	5 chuck up 3 yards Rens	From a line extended South from the Bousfield Shaft at Longholehead to the East side of Thorlargile Cross Vein
Thorlargile	June 2d 1798	Renewed	From the Boundary of Thorlargile Cross Vein to Tyne River
Sun Vein	June 2d 1798	Renewed	D° D°
Cross Vein	June 2d 1798	Renewed	From Garrigile Burn to Ashgile Burn
Sykes	Mar 12th 1805		From Thorlargillsyke Runnu 1160 yards Eastward & 150 yards Westward
Sykes North Vein	Mar 12th 1805		From Colonells Level 1050 yards Eastward & 150 Yard W
Bontyfield	June 2d 1798	Renewed	From Tyne River to a line extended from Buskyburn Syke to the West end Boundary of Garrigile West end
Sun Vein	June 2d 1798	Renewed	D° D°
Coupes dykeheads	June 25th 1806		From the Boundary of Lowhouse Sneuks 1200 Yards Eastward
Garrigileburn Old Groves	June 2d 1798		From the Garrigile Burn to a line extended from the Foremost shaft on Fletcheays Vein to the East Angle of the Boundary of Nether Craig Tenement
Tynebottom West of Tyne	Jany 12th 1805	5 chuck	From the Middle of Tyne River 1200 Yards Westward
Sun Vein	May 18th 1811	5 chuck down 5 feet	From the North West Boundary of Geo Swindles ground 200 Yards Eastward & 1000 Yards Westward

An Account shewing the commencement of the Leases within the Manor of Alston Moor granted to the Governor and Company for smelting down Lead &c / No 13 The Boundary of each Vein contains Forty Yards on each side thereof

Names of Lead Mines	Commencement of 21 Years		Extent of Boundary
Windshaw Bridge North end Crossgill Vein	Oct 29th 1814 June 2d 1798	Renewed	From Tyne River to Rodrup side Road From Tyne River to Crossgill
Plots of Ground Broomsberry 10 years from	June 30th 1819	On the East On the West On the North On the South	by Broomsberry Level by Hunt River by Greenhamgill Burn by a line drawn from Hunthwaite Bridge towards the 66th Angle of the Boundar ditch as far as the Broomsberry Level
Rampgill 10 years from	Nov 12th 1817	On the North On the East On the South On the West	from Hunthwaite Bridge in a line to the 66th Angle of the Boundar by the Boundar of Alston Moor (Manor) to the Naggs Head from the Naggs Head to where Longclough & Applecleugh meets from where Longclough & Applecleugh meets by Rentriver to Hunthead Bridge over the River Hunt where the Boundary first began
Lovelady Shield 10 years from	Aug 26 1812	On the West On the South W On the East S On the North	from the 30th Angle of the Boundar Ditch between the Manor of Alston Moor & the regality of Hexham by the North side Boundary of an Allotment set out to Mr Dickinson of Lovelady shield to the N: West Angle of the said Allotment and from thence in a line in the direction of the said Boundary to the Turnpike Road leading from Bustyford to Alston by the North side of the said Turnpike Road to Hunthale Bridge from Hunthale Bridge in a direct line to the 38th Angle of the Boundar Ditch, and from thence Northward by the said Boundar Ditch to the North East Angle of Mr Dickensons Allotment when the Boundar first began

Detail of Cowper Dykeheads Mine

This Vein has got some small Quantete of Ore in the Great Limestone W. of Ganguelburn Vein — the Ld or Top Level is drawn in the plate above the Great Lime and sumps sunk from it — but this Level is not drawn as far E as the intersection with the Ganguelburn Vein — the Veins is in two parts about 100 fathoms W of Ganguelburn Vein (about 10 fathoms distant from each other) — It seems this Vein or Veins have not been sufficiently sought on the E of G. burn Vein — About 40 fathoms W of G. burn Vein after the Low Level was drawn, and holed up to the Ld Workings, four men got about 100 Tons of Ore in half a Year and afterwards two of them got about 40 Tons More — several small Quantites of Ore has been got by others in the Ld peekings —

There is some ground W. from the 40 fathoms named above where only a single Drift is drawn through perhaps some Ore may be left there —

About 40 fathoms E. of the Level mouth the four fathom Limestone has been tried but without succes and had only a bad appearance

The Quarry Bank had some Ore in it when the Level was driven in the Vein but nothing worth naming —

Hundybridge Vein lies between Cowpendykeheads & Fletcherap but in driving in the Ganguelburn Vein She has never been discovered so as to make any appearance to be certain when she was, She was seen about the outburst of the Great Limestone, had some Ore in her there but very little

Detail of Bentyfield Mine

That which is called the Taylors syke Vein or the Bentyfield N. Vein is the first on the South side of Ganegillburn and has been very little worked by the Governor & Company for the last 30 or 40 years ——— Where she crops Brownguls Level the Limestone is not on and whether or not she is there tried on the Quarry Hazel I am not able to learn, but it is supposed she is not nor is she tried on the Four Fathom Limestone — about 50 or 60 fathoms W. from where she crops the Ganegillburn the Great Limestone puts on and in that ground she was very rich, so much so that it is said that Ore was raised in that ground at 7 a Ding and was worked as deep as the Quarry Hazel ———

An Engine was put in the Burn Bottom to draw the Waters ——— But since that time the Bentyfield Level was driven up to her and but little Ore has been got ———

It is reported that there is about 6 fath. of unworked ground in the Great Limestone with good Ore left in it, but cannot ascertain the exact place

This Vein is very little proved E. from Ganegillburn There are two Shafts open into her on that side which were opened & walled by the Earl of Carlisle but very little Ore if any was got

Since the Company had her some small trial was made but very little Ore got ———

The forehead in the Great Limestone is hard and the Vein has a bad appearance ———

She is one of the Grangile Veins and was very productive in the Slatevills

There is much ground between this Forehead & Grangile W. End — but these Veins were not productive in the Great Limestone — Some small trials have been made in the pattinson on that ground

Bentyfield Sun Vein

Is a wide and strong looking Vein but has never been Rich, yet has produced some considerable quantities of Ore in the Great Limestone, in that part of the ground between, Garrigillburn Vein & Shotergill Syke, the Ore in this Vein generally lies very wide and much mixed with the rider and generally makes very poor Bouse — The Ore is also of a very poor quality

The Level is driven almost as far to the East as where the Vein crosses Garrigillburn, and a drift is driven in the Limestone about 20 or 25 fa. further E.

There is a considerable length of ground between the Forend of these Workings & Greengile Westend

At Greengile the produced a good deal of Ore in the Slatehills — She was also tried there in the Great Limestone but did not prove successful

In the ground between Greengile W. end and Garrigillburn, there has been some small trials made in the Limestone &c but it seems no Ore has been produced

Thorntergillsyke N. Vein

is divided into two or more Veins, with a String called Dorcy's String which intersects with them &c. from Thorntergille Cross Vein ——

In that part of the ground between Thorntergille Cross Vein and Thorntergillsyke they produced much Ore

It was expected by Mr Dodd that some Ore was left in that ground —— a rise was risen into the old Workings (from the Low Level) in the Great Lime. but the Vein was found to be very much excavated and nothing found worth the expense of working

A Level was next driven E. in the Soft 50 or 60 fathom, and rises put up in different places unto the Great Limestone, but she was always found very much cut out, —— Two or three years after this Adam Walton & took her @ 60/- a Bing and got about 20 Bings of Ore —— since that time nothing has been done in that part of her

Since that time the Clay Level has been driven & some Ore got in a String to the Sun

It seems she has not been proved to the W. of Thorntergille Cross Vein —— She may perhaps produce some Ore tile the Level Limestone is cut off

These and the Bentyfield Veins have produced the most Ore when under the least cover

Bentyfield Level is driven to this Vein and cuts her near Thorntergillsyke. —— These Veins separate as they go Eastward and are proved in different places between Thorntergillsyke and Thorntergille Level

In this North Vein a Level is driven from Thorntergille and is pursued a length to the East of Browngillsyke and two or three Sumps are sunk into the Great Limestone and Ore left in the foremost but One about 6 inches wide (and in the foremost Sump it is said that two inches wide of Ore was left, but the Limestone is the most of it under Water

Detail of Shortergill Syke

Two lengths E. from Shortergill Level are driven on the Vein and two Sumps sunk into the Great Limestone where some Ore has been got but only small Quantities —— A Sump is also sunk close by Shortergill Level side

These Veins seem to lose their strength as they are pursued Eastward and gets more cover

Delaval of Shortergill Veins in Gangue

This is a very strong Vein, and in some places throws up the Sun Check up 14 Fathoms ——

At Longhedhead she throws 12 Fathoms —— This Vein appears to have been worked for a great Number of years

Three Levels have been driven to her from Gangue beneath the Low Level under the Four fathom Limestone — the Whitesyke Level and Cains Level, the two last begin nearly together and divide as they go Southerly.

The Quarry Hazel Level also commences a little below the outburst of the Great Limestone, She appears to have produced Ore from the first putting on of the Great Limestone ——

From thence to Browngill high Shop it appears from the great Quantity of Wastes & that a great deal of Bouse has been washed up for a great number of years

In the Shortergill Sear there has been only One Shaft opened into her, and a rise from the Low Level for upwards of thirty years ——

A good deal of Ore was drawn up that Shaft about 30 years ago

There was nothing discovered by the Rise from the Low Level that would pay for working —— the rise was of much later date (by Thomas Bele)

A little to the East of Shortergillsyke an Shaft was sunk into the Low Level or rather into the Whitesyke Level where a North String was discovered which produced a great deal of Ore in the Coal sills but it intersects with the Shortergill Vein going Eastward —— and is supposed to be unworked Westward from Shortergillesyke.

A Level from Shortergillsyke is driven S E a little it cuts the Vein —— and a Sump is sunk through to the Whitesyke Level and several small panels of Ore have been got thereabouts especially up a rise called Teasdales Rise

Thorlesgill Detail

In a length of ground W. from the last mentioned sumps a considerable Quantity of Ore was got in the N. Check of the Great Limestone, & South Check of the 4-Fathom Limestone and also some in the Hazel below.

The Thorlesgillsyke Level is driven about 100 fa E. from the Sumps last mentioned as sunk between the Levels — a partnership worked this ground 11 or 12 years and got about 1000 Tons of Ore & made good Wages, — they say some Ore was left in the Sides which they intended to have worked at a future time

The old Level rises very fast and near two fathoms is gone up almost at Once — Mr Dodd began the Level at these Sumps and turned her into the Vein, where she is now standing very hard with some Ore in her a little before the Forehead

A little to the W of this Forehead a Sump was sunk into the N Check of the Great Limestone, but no trial was made — this Sump was sunk about 5 or 6 fa

This Level is supposed to continue rising until she gets far up in the Sun Check of the Great Limestone

Dustons Level from the Browngillesyke also Flankes this Vein under the Limestone —

In this ground the Sun String is about 6 fathoms from the Vein (and lies about 3 or 4 inches wide of Ore in it (and is very hard

It is reported by some Old Men that good Ore was seen in the Soles between the Top Level Forehead and Browngillsyke, when it could not be got for Water on account of the rising of the Level

About the Browngile runner it appears that the Bruggleburn Veins Separate from the Browngile Veins these Bruggleburn Veins seem to never have been discovered in that ground from Browngile to the West end of Bruggleburn Workings — this appears to be worth the Notice of some Trial being made as the Bruggleburn Vein was very productive on the East side of the Dale

Detail of Brongell Mines

The old Level is driven as far as Longholehead high Whimsey ——— The Brongle high Level is also driven to the Longholehead High Whimsey about the Slate Sills Besides the Waygate Level which (M^r Dodd drove) ——— It seems there has not been much Ore got between Brongilesyke and the Low Whimsey

The Slatesills were rich a little to the East of the Low Whimsey and for many years has been worked — she is worked Eastward as far as the Shewsykehead and is mostly in two parts with strings running between them and has produced a great deal of Ore

About 40 fathoms W^t from the High Whimsey the Firestone was worked and produced much Ore and it appears that much ground in that sile is unproved further Westward

About 20 fathoms still further West there is some whole ground in the Whetson or lowest Slate sile a Sump was sunk into it and about 8 fathoms of ground was opened which produced 10 or 15 Tons of Ore — about 25 fathoms further W^t another Sump was sunk into it but did not prove productive

West from the High Whimsey the White Hazel Little Limestone and Coal sills begun to be very productive and are worked about 60 fathoms E from the same Whimsey and produced much Ore ———

The Level for the Coal sills is all run close and would be very expensive to open ——

The Sun Vein or Longholehead Vein were many intersecting with the other at the forehead

The Sun Vein or Longholehead Vein is most of her worked on the Coal sills and White Hazel as far as the Coal sills Level Forehead

It was thought necessary to make a way to the Coal sills forehead, this way seems to be the best to get to her

a String goes off to the North about 12 fathom the Forehead

Brownyill & Longhedehead Detail

The Coal sills Level might be on considerable use —

There is little doubt but the Coal sills would produce Ore if pursued further East as the Slate sills were very productive in the ground between here and the Stone sythehead

She would also unwater all the sills between the Coal sills and the Slate sills — And also if pursued Eastward tile she meets the Caplecleugh or Caplecleugh Crop Ven Level, would answer very well for Ventilating that Level

There is a drift driven from the Longhedeh Whemsey Eastward between the Low Slate sills and the Whetson Sile, perhaps about 80 Fathoms, a Sump is sunk about the Middle of this ground from the above Level or drift into the Coal sile Level —

It is supposed the Freestone Whetson sile are unproved E from the High Whemsey, but might easily be tried from that Sump — The Pattenson at Longhedehead is a very thin sile

Pinkey Vein alias Shortengle N Vein

This Vein lies about 20 fathoms to the N of Browngle Vein

The is worked and has produced a good deal of Ore from R. Rains shaft Eastward about 50 or 60 fathoms to the East of Shortengle Sykes and was tried a shaft length further E. both in the great Limestone and Coal Sills but did not produce Ore

This Vein might Easily be tried by a Crosscut from Browngle Level further to the East

The Ore got on this Vein is of a poor Quality for Lead, perhaps she has not been tried in any of the Coal Sills any way but the place above mentioned — Nor has any trial been made that is known of in the Quarry Bagle

Thorlesgill Cross Vein

This Vein has produced considerable Quantities of Ore in the Great Limestone between Bentyfield & Thorlesgill Sun Vein, and has invariably been the best near the intersections with Old Veins

She has been proved 40 or 50 Fathoms to the South of Thorlesgill Sun Vein, by a Level or Drift from a Shaft in the Sun Vein —— There have been two rises risen from this Level or Drift, but little Ore got.

She appears very weak in that ground (and it is supposed that another part of her is lying about 30 fathoms to the East —— She is wrought in the Jan fathom Limestone a little to the South of Bentyfield Whemsey —— This Whemsey foot is bored through to the low Level which drained the Water from the 4 Fathom limestone —— There is 4 Sumps into her from Brownyle Level (and some Ore has been got —— She has been shaked up for some time, and several attempts have been made to lose it but without effect

Some suppose that if the Water was loosed (and a Madling cut through some Ore would be got

The Low Level is drawn a little to the S.W. of Bentyfield Whemsey —— A shaft is sunk from the Low Shaft into this Level (and this Vein tried from this Shaft in the Jan fathom Limestone but without success

To the North of Gangelbeen to Cowpen Dykeheads she seems to have been much tried but it does not appear that she ever has been rich except about the intersection with that Vein